

P-1295/50

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PATENT

Docket No. 5634.358

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEInventors: John C. Harvey and James W.  
Cuddihy

Group Art Unit: 2602

Serial No.: 08/479,215

Examiner: *AS*

Filing Date: June 7, 1995

For: Signal Processing Apparatus and  
MethodsAssistant Commissioner of Patents  
Washington D.C. 20231SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

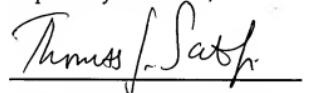
| <u>Serial No.</u> | <u>Filing Date</u> | <u>Patent No.</u> |
|-------------------|--------------------|-------------------|
| 08/113,329        | August 30, 1993    | Pending           |
| 08/056,501        | May 3, 1993        | 5,335,277         |
| 07/849,226        | March 10, 1992     | 5,233,654         |
| 07/588,126        | September 25, 1990 | 5,109,414         |
| 07/096,096        | September 11, 1987 | 4,965,825         |

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the cases cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725 and/or U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

  
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Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 15, 1995

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|   |  |                          |
|---|--|--------------------------|
| <b>PTO 1449</b><br><b>INFORMATION DISCLOSURE</b><br><b>STATEMENT BY APPLICANT</b><br><br><b>Title: Signal Processing Apparatus</b><br><b>and Method</b> | Attorney Docket No.<br>5634.358                          | Serial No.<br>08/479,215 |
|   | <b>Applicants</b><br>John C. Harvey and James W. Cuddihy |                          |
|   | Filing Date:<br>June 7, 1995                             | Group:<br>2602           |

**U.S. Patent Documents**

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE    | NAME            | CLASS/ SUBCLASS | FILING DATE* |
|------------------|---------------|----------------|-----------------|-----------------|--------------|
|                  | 2,511,085     | June 13, 1950  | Smith           | 179/1           |              |
|                  | 2,573,349     | Oct. 30, 1951  | Miller et al.   | 177/353         |              |
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|                  | 3,573,747     | Apr. 6, 1971   | Adams et al.    | 340/172.5       |              |
|                  | 3,584,142     | June 8, 1971   | Schoeffler      | 178/6.8         |              |
|                  | 3,601,528     | Aug. 24, 1971  | McVoy           | 178/5.1         |              |
|                  | 3,609,697     | Sept. 28, 1971 | Blevins et al.  | 340/172.5       |              |
|                  | 3,657,699     | Apr. 18, 1972  | Rocher et al.   | 340/146.1       |              |

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| EXAMINER  | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

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|  | Filing Date:<br>June 7, 1995                      | Group:<br>2602           |
| <b>Title: Signal Processing Apparatus<br/>and Method</b> |   |                          |

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|------------------|---------------|----------------|-----------------|-----------------|--------------|
|                  | 3,659,046     | Apr. 25, 1972  | Angeleri et al. | 178/22          |              |
|                  | 3,668,307     | June 6, 1972   | Face et al.     | 178/5.6         |              |
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|                  | 3,693,090     | Sept. 19, 1972 | Gabriel         | 325/308         |              |
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|                  | 3,725,672     | Apr. 3, 1973   | Reuter          | 307/208         |              |
|                  | 3,729,581     | Apr. 24, 1973  | Anderson        | 178/6.8         |              |
|                  | 3,731,197     | May 1, 1973    | Clark           | 325/32          |              |
|                  | 3,733,430     | May 15, 1973   | Thompson et al. | 178/5.1         |              |
|                  | 3,736,369     | May 29, 1973   | Vogelman et al. | 178/5.1         |              |
|                  | 3,749,845     | July 31, 1973  | Fraser          | 179/15          |              |
|                  | 3,752,908     | Aug. 14, 1973  | Boenke et al.   | 178/5.6         |              |
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|                  | 3,789,137     | Jan. 29, 1974  | Newell          | 178/6.6         |              |
|                  | 3,790,700     | Feb. 5, 1974   | Callais et al.  | 178/5.1         |              |
|                  | 3,798,359     | Mar. 19, 1974  | Feistel         | 178/22          |              |
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|                  | 3,803,491     | Apr. 9, 1974   | Osborn          | 325/53          |              |

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|------------------|---------------|---------------|------------------|--------------------|--------------|
|                  | 3,806,814     | Apr. 23, 1974 | Forbes           | 325/309            |              |
|                  | 3,819,852     | June 25, 1974 | Wolf             | 178/5.6            |              |
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|                  | 3,885,089     | May 20, 1975  | Callais et al.   | 178/5.1            |              |
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|                  | 3,891,792     | June 24, 1975 | Kimura           | 178/5.8R           |              |
|                  | 3,893,031     | July 1, 1975  | Majeau et al.    | 325/32             |              |
|                  | 3,894,176     | July 8, 1975  | Mellon           | 178/5.1            |              |
|                  | 3,899,633     | Aug. 12, 1975 | Sorenson et al.  | 178/5.1            |              |
|                  | 3,911,216     | Oct. 7, 1975  | Bartek et al.    | 178/22             |              |

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|------------------|---------------|---------------|--------------------|-----------------|--------------|
|                  | 3,914,534     | Oct. 21, 1975 | Forbes             | 178/5.1         |              |
|                  | 3,916,091     | Oct. 28, 1975 | Kirk, Jr. et al.   | 178/5.1         |              |
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|                  | 3,921,151     | Nov. 18, 1975 | Guanella           | 340/172.5       |              |
|                  | 3,924,187     | Dec. 2, 1975  | Dormans            | 325/52          |              |
|                  | 3,934,079     | Jan. 20, 1976 | Barnhart           | 178/5.1         |              |
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|                  | 3,943,447     | Mar. 9, 1976  | Shomo, III         | 325/308         |              |
|                  | 3,947,882     | Mar. 30, 1976 | Lightner           | 360/92          |              |
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|                  | 3,956,615     | May 11, 1976  | Anderson et al.    | 235/61.7B       |              |
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|                  | 3,975,583     | Aug. 17, 1976 | Meadows            | 175/5.6         |              |
|                  | 3,978,449     | Aug. 31, 1976 | Sanders et al.     | 340/146.1       |              |
|                  | 3,987,398     | Oct. 19, 1976 | Fung               | 325/309         |              |
|                  | 3,988,528     | Oct. 26, 1976 | Yanagimachi et al. | 178/5.6         |              |
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|                  | 4,024,574     | May 17, 1977  | Nieson             | 358/117         |              |

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|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
|                     | 4,025,851        | May 24, 1977   | Hazelwood et al.   | 325/31             |                 |
|                     | 4,025,947        | May 24, 1977   | Michael            | 358/86             |                 |
|                     | 4,025,948        | May 24, 1977   | Loshin             | 358/122            |                 |
|                     | 4,031,548        | June 21, 1977  | Kato et al.        | 358/188            |                 |
|                     | 4,048,619        | Sept. 13, 1977 | Forman, Jr. et al. | 340/154            |                 |
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|                     | 4,054,911        | Oct. 18, 1977  | Fletcher et al.    | 358/141            |                 |
|                     | 4,058,830        | Nov. 15, 1977  | Gulnet et al.      | 358/86             |                 |
|                     | 4,068,264        | Jan. 10, 1978  | Pires              | 358/122            |                 |
|                     | 4,079,419        | Mar. 14, 1978  | Siegle et al.      | 358/193            |                 |
|                     | 4,081,612        | Mar. 28, 1978  | Hafner             | 179/15BA           |                 |
|                     | 4,081,753        | Mar. 28, 1978  | Miller             | 325/396            |                 |
|                     | 4,081,831        | Mar. 28, 1978  | Tang et al.        | 358/114            |                 |
|                     | 4,091,417        | May 23, 1978   | Nieson             | 358/117            |                 |
|                     | 4,104,486        | Aug. 1, 1978   | Martin et al.      | 179/2              |                 |
|                     | 4,107,735        | Aug. 15, 1978  | Frohbach           | 358/84             |                 |
|                     | 4,112,464        | Sept. 5, 1978  | Gulf et al.        | 358/122            |                 |
|                     | 4,115,662        | Sept. 19, 1978 | Gulnet et al.      | 179/15BV           |                 |
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|                     | 4,120,030        | Oct. 10, 1978  | Johnstine          | 364/200            |                 |

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|---------------------|------------------|----------------|----------------|--------------------|-----------------|
|                     | 4,130,833        | Dec. 19, 1978  | Choenet        | 358/122            |                 |
|                     | 4,131,881        | Dec. 26, 1978  | Robinson       | 340/167R           |                 |
|                     | 4,138,726        | Feb. 6, 1979   | Girault et al. | 364/521            |                 |
|                     | 4,160,120        | July 3, 1979   | Barnes et al.  | 178/22             |                 |
|                     | 4,161,751        | July 17, 1979  | Ost            | 358/114            |                 |
|                     | 4,163,254        | July 31, 1979  | Block et al.   | 358/122            |                 |
|                     | 4,163,255        | July 31, 1979  | Pires          | 358/122            |                 |
|                     | 4,168,396        | Sept. 18, 1979 | Best           | 178/22             |                 |
|                     | 4,170,782        | Oct. 9, 1979   | Miller         | 358/84             |                 |
|                     | 4,171,513        | Oct. 16, 1979  | Otey et al.    | 325/32             |                 |
|                     | 4,172,213        | Oct. 23, 1979  | Barnes et al.  | 178/22             |                 |
|                     | 4,186,413        | Jan. 29, 1980  | Mortimer       | 358/146            |                 |
|                     | 4,196,310        | Apr. 1, 1980   | Forman et al.  | 178/22             |                 |
|                     | 4,200,770        | Apr. 29, 1980  | Hellman et al. | 178/22             |                 |
|                     | 4,200,913        | Apr. 29, 1980  | Kuhar et al.   | 364/900            |                 |
|                     | 4,205,343        | May 27, 1980   | Barrett        | 358/147            |                 |
|                     | 4,213,124        | July 15, 1980  | Barda et al.   | 340/706            |                 |
|                     | 4,215,366        | July 29, 1980  | Davidson       | 358/124            |                 |
|                     | 4,215,370        | July 29, 1980  | Kirk, Jr.      | 358/146            |                 |
|                     | 4,225,884        | Sept. 30, 1980 | Block et al.   | 358/122            |                 |

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|---------------------|------------------|----------------|------------------|--------------------|-----------------|
|                     | 4,225,967        | Sep. 30, 1980  | Miwa et al.      | 455/68             |                 |
|                     | 4,230,990        | Oct. 28, 1980  | Lert, Jr et al.  | 455/67             |                 |
|                     | 4,232,193        | Nov. 4, 1980   | Gerard           | 179/1.5R           |                 |
|                     | 4,236,217        | Nov. 25, 1980  | Kennedy          | 364/483            |                 |
|                     | 4,237,484        | Dec. 2, 1980   | Brown et al.     | 358/142            |                 |
|                     | 4,245,245        | Jan. 13, 1981  | Matsumoto et al. | 358/122            |                 |
|                     | 4,247,106        | Jan. 27, 1981  | Jeffers et al.   | 273/85G            |                 |
|                     | 4,250,524        | Feb. 10, 1981  | Tomizawa         | 358/122            |                 |
|                     | 4,253,114        | Feb. 24, 1981  | Tang et al.      | 358/114            |                 |
|                     | 4,253,157        | Feb. 24, 1981  | Kirschner et al. | 364/900            |                 |
|                     | 4,262,329        | Apr. 14, 1981  | Bright et al.    | 364/200            |                 |
|                     | 4,264,924        | Apr. 28, 1981  | Freeman          | 358/86             |                 |
|                     | 4,264,925        | Apr. 28, 1981  | Freeman et al.   | 358/86             |                 |
|                     | 4,266,243        | May 5, 1981    | Shutterly        | 358/121            |                 |
|                     | 4,275,411        | June 23, 1981  | Lippel           | 358/13             |                 |
|                     | 4,283,602        | Aug. 11, 1981  | Adams et al.     | 179/1.5R           |                 |
|                     | 4,284,976        | Aug. 18, 1981  | Gable et al.     | 340/147            |                 |
|                     | 4,286,281        | Aug. 25 1981   | Suzuki           | 358/4              |                 |
|                     | 4,287,592        | Sept. 1, 1981  | Paulish et al.   | 370/88             |                 |
|                     | 4,288,809        | Sept. 8, 1981  | Yabe             | 358/12             |                 |

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|                  | 4,290,141     | Sept. 15, 1981 | Anderson et al.  | 455/2           |               |
|                  | 4,290,142     | Sept. 15, 1981 | Schnee et al.    | 455/3           |               |
|                  | 4,292,650     | Sept. 29, 1981 | Henderickson     | 358/173         |               |
|                  | 4,295,223     | Oct. 13, 1981  | Shutterly        | 455/72          |               |
|                  | 4,302,771     | Nov. 24, 1981  | Gargini          | 358/86          | July 23, 1980 |
|                  | 4,304,990     | Dec. 8, 1981   | Atalla           | 235/380         | Feb. 4, 1980  |
|                  | 4,305,101     | Dec. 8, 1981   | Yarbrough et al. | 360/69          | Apr. 16, 1979 |
|                  | 4,305,131     | Dec. 8, 1981   | Best             | 364/521         |               |
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|                  | 4,306,289     | Dec. 15, 1981  | Lumley           | 364/200         | Feb. 4, 1980  |
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|------------------|---------------|----------------|------------------|-----------------|------------------|
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\* - If pertinent

\*\*\* - Claims priority from parent application filed prior to Nov. 3, 1981

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| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | PUBLICATION<br>DATE | COUNTRY         | CLASS/<br>SUBCLASS | TRANSLATION |    |
|---------------------|--------------------|---------------------|-----------------|--------------------|-------------|----|
|                     |                    |                     |                 |                    | YES         | NO |
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